

# FOOT ROT DUE TO PHYTOPHTHORA CACTORUM IN ADDITIONAL SPECIES OF LILIUM

Charles Drechsler

A culture of *Phytophthora* isolated by E. B. Mains from diseased plants of *Lilium tenuifolium* Fisch. near Lafayette, Indiana, during the season of 1928 was identified by the writer as *Phytophthora cactorum* (Cohn & Leb.) Schroet., a fungus previously found as the cause of foot rot of *Lilium candidum* L. and *L. pyrenaicum* Gouan near the District of Columbia (Phytopath. 16: 51-53. Jan. 1926). It may be worthy of record also that the same parasite was isolated from diseased specimens of *Lilium washingtonianum* Kellogg, *L. speciosum* Thunb. and *L. regale* Wilson, collected in May, 1927, again from the experimental plot maintained by H. E. Allanson at Takoma Park, Maryland. In type of injury the latter three species at least, presented no departure from the description given of foot rot in the two congeneric hosts. (Charles Drechsler, Jan. 15)

## OBSERVATION ON NARCISSUS MOSAIC IN VIRGINIA

F. P. McWhorter makes the following statement as a result of observations on certain bulb farms in Virginia:

"Varietal distribution of mosaics, March 11 and 12. At this time only the early varieties such as Cervantes, Goldenspur and Henry Irving were in flower. The following were conspicuously diseased:

<u>Variety</u>	<u>Location</u>	<u>Per cent Mosaic</u>
Cervantes	Great Bridge	40
"	Elmerton	50
Bicolor Dick	Great Bridge	20
Orange Phoenix	"	50
Queen of England	"	30
Admiration	"	10
Lemon	"	2

"It is planned to make readings such as these at two-week intervals."

## TYLENCHUS DIPSACI ON BULBS

Most of the specimens listed were received through members of the Plant Quarantine and Control Administration and were examined by Doctors Cobb and Steiner of the Bureau of Plant Industry.

ONION: from Holland, received from A. J. Bruman through D. P. Limber, Jan. 7, 1929. Intercepted at New York City, Dec. 28, 1928, by W. S. Fields. Det. G. Steiner.

NARCISSUS: Springfield, Ohio, E. W. Mendenhall, April, 1929. Det. N. A. Cobb.

North, Virginia, F. Weiss, April, 1929. Det. G. Steiner. Varieties King Alfred, Victoria, Emperor.

Sanford, Florida; Chapman & Davidson, Jan. 14. Sent in by E. R. Sasscer. Det. N. A. Cobb. Stock from France, 1928 importation. Variety Soleil d'Or.

Glen St. Mary, Florida, Davidson & Chapman, Jan. 26. Received from E. R. Sasscer, Feb. 6. Det. N. A. Cobb. Variety Soleil d'Or.

Monticello, Florida, Chapman & Davidson, Jan. 26, sent in by E. R. Sasscer. Det. N. A. Cobb. Cephalobus elongatus also found. Variety Paper White.

Jacksonville, Florida, Chapman & Davidson, Jan. 28. Received from E. R. Sasscer. Det. N. A. Cobb. Variety Roman Constantinople.

On cut flowers of Poeticus ornatus from Canada. From S. B. Fracker, Feb. 28, intercepted at Detroit, Michigan, Feb. 19, by Messrs. Wood and Gower. Det. N. A. Cobb.

#### RHIZOCTONIA SOLANI ON TULIP

Diseased tulip stems and leaves and a culture of a fungus isolated from them were received from E. P. Guba of Massachusetts in February. The specimens and culture were examined by Dr. Freeman Weiss who determined the fungus as Rhizoctonia solani. He reported:

"The leaf lesions appear like those of Botrytis tulipae, but nothing but Rhizoctonia was obtained from them . . . . Previous to this year I have not encountered R. solani parasitic on tulips but shortly before receiving these specimens, I received tulips injured in the same way from a grower in Pennsylvania and those specimens also yielded R. solani."

#### RUST ON PLUMIERA ACUTIFOLIA

A specimen of a rust which had been defoliating a frangipanni tree owned by David Fairchild at Coconut Grove, Florida, was received from Knowles A. Ryerson, in February. The rust was determined by R. Davidson of the Office of Mycology and

Disease Survey as Coleosporium domingense (Berk.) Arth. This seems to be the first record of the occurrence of the rust in this country.

#### SPECIMENS RECEIVED

##### FRUIT CROPS:

Caconema radicicola (Greef) Cobb on strawberry. Ames, Iowa. Coll. H. Hess, March 26. Det. N. A. Cobb.

Gymnoconia interstitialis (Schl.) Lagh. on blackberry. Washington, D. C. Coll. C. A. Ludwig, April 30. Det. R. J. Haskell.

##### VEGETABLE CROPS:

Ascochyta lycopersici Brun. Stem and leaf blight of tomato. Atlee, Virginia, March 29. Det. C. Drechsler.

Mycosphaerella brassicicola (Fr.) Lindau, ring spot of cauliflower. Albany, New York. Coll. E. R. Niehaus, March 29. Det. L. L. Harter.

Peronospora parasitica (Pers.) D By. on cabbage. Thomasville, Georgia. Coll. O. C. Boyd, Jan. 15. Det. L. L. Harter.

Bacterium campestre (Pam.) EPS., black rot of cabbage. La Fayette, Louisiana. Received from Bacque Seed Co., Inc., Jan. 29. Det. L. L. Harter.

Rhizoctonia sp., root rot of Lima bean. Stuart, Florida, received from T. Lane Moore, Jan. 28. Det. W. A. Whitney.

##### FORAGE CROPS:

Peronospora trifoliorum D By. on alfalfa. Reidsville, North Carolina, received from G. W. Fant, April 18.

Non-parasitic trouble of alsike clover. New Hampton, Virginia. Collected April 22 by T. W. Turner who reported that the disease was serious in clover this spring. Doctor Monteith says that the trouble is similar to white spot of alfalfa, probably due to various causes, including potash deficiency, excessive water, etc.

##### ORNAMENTALS AND MISCELLANEOUS:

Aster yellows (virus), Doylestown, Wisconsin. Received from Chas. A. Nagel, March 8. Det. F. Weiss.

Diaporthe unbrina Jenkins on rose (Red Radiance), near Great Bridge, Virginia, F. P. McWhorter, March 12. Det. G. Hamilton Martin.

Leptosphaeria coniothyrium (Fekl.) Sacc. on rose. Winchester, Virginia, F. J. Schneiderhan, March 23. Near Great Bridge, Virginia, on Red Radiance variety, F. P. McWhorter, March 12. Both det. G. Hamilton Martin.

Dothiorella ribis, pycnidial form of Botryosphaeria ribis, causing cankers on twigs of pussy willow. Charlotte, North Carolina, R. F. Poole, May 7, Det. C. L. Shear.

Poria ambigua Bres. (P. lacerata Murr.) Root rot of hackberry, near Sub-Station No. 5, Texas Agricultural Experiment Station, B. F. Dana, April 24. On sheath at base of leaf of date palm, Sacaton, Arizona. Coll. R. H. Peebles, March 27, received from D. C. George, who stated that the organism had been observed and collected in various parts of the Salt River Valley, apparently saprophytic. Both specimens det. J. A. Stevenson.

Uromyces caladii (Schw.) Farl. II, on Arisaema triphyllum. Cabin John Creek, Maryland. Coll. Mary G. Van Meter, April 28. Det. R. Davidson.

Puccinia violae (Schum.) DC. on Viola sp. Cabin John Creek, Maryland. Coll. Mary G. Van Meter, April 28. Det. R. Davidson.

Peronospora parasitica (Pers.) D By., on Dentaria laciniata. Cabin John Creek, Maryland. Coll. Mary G. Van Meter, April 28. Det. R. Davidson.

Peronospora arthuri Farlow on Oenothera sp. American University Campus, Washington, D. C. Coll. C. A. Ludwig, April 30. Det. R. J. Haskell.

#### NOTICE

Announcement is being made that the American Phyto-  
pathological Society will hold its regular summer meeting at  
the same time and place as selected by its Southern Division  
for its regular annual meeting. This will be in North Caro-  
lina starting at Raleigh, and the date has been tentatively  
set for July 29, 30, and 31. R. F. Poole, President of the  
Southern Division, is in charge of arrangements. Science  
and Phytopathology will carry more detailed announcements.

R. J. H.